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Leu	Ser	Tyr	Leu	Asp	Ala	Lys	Ser	Leu	Cys	Ala	Ala	Glu	Leu	Val	Cys	165	170	175
Lys	Glu	Trp	Tyr	Arg	Val	Thr	Ser	Asp	Gly	Met	Leu	Trp	Lys	Lys	Leu	180	185	190
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<213> *Saccharomyces cerevisiae*

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<213> *Saccharomyces cerevisiae*

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Asp Asp Leu Ala Gln Gly Ser Ser Gly Lys Lys Lys Met Thr Met Ala
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Thr Arg Ser Pro Ser Ser Ser Pro Asp Leu Ala Thr Asn Asp Ser Gly
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Thr Arg Val Gln Pro Leu Pro Glu Tyr Asn Phe Thr Lys Phe Cys Tyr
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Arg His Asn Pro Asp Ile Gln Phe Ser Pro Thr His Thr Ala Cys Tyr
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Ser Phe Asp Pro Gln Val Phe Pro Ser Ser Leu Ile His Gly Asp Asn
          35          40          45

Leu Leu Pro Gln Asp Asp Gln Ile Ala Ser Asp Pro Arg Ser Glu Ser
          50          55          60

Asn Ser Cys Asn Gly Asn Thr Ser Ser Ser Leu Pro Cys Thr Asp Ser
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Tyr Gln Tyr Pro Leu Lys His Ser Cys Thr Pro Ser Phe Leu Arg Lys
          85          90          95

Phe Asn Glu Ser Ile Glu Asn Val Ser Tyr Lys Cys Leu Asp His Ser
          100          105          110

Pro Pro Asp Ser Val Pro Gly Asp Phe Ser Ile Ser Leu Val Pro Gln
          115          120          125

Arg Asn Phe Leu Tyr Ser His Ser Ser Leu Pro Pro Lys Ile Ile Ser
          130          135          140

Ile Asp Arg Asn Asn Arg Ile Lys Leu Asp Asn Ser Ile Ser Ser Asn
          145          150          155          160

Ser Asp Asn Phe Pro Pro Ser Pro Lys Val Asp Thr Ser Asn Thr Val
          165          170          175

Ser Pro Gly Ser Lys Pro Ile Ser Glu Asp Leu Glu Asp Leu Asn Leu
          180          185          190

Gln Ser Ile Val Gln Thr Phe Glu Asp Leu Pro Glu Gly Ile Gln Ser
          195          200          205

Tyr Ala Phe Phe Gln Leu Leu Arg Ser Cys Asn Arg Gln Ser Met Arg
          210          215          220

Leu Leu Leu Asn Glu Cys Glu Pro Leu Leu Lys Lys Asp Ile Leu Ser
          225          230          235          240

Asn Leu Pro Phe Ser Ile Val Gln Ser Ile Leu Leu Asn Leu Asp Ile
          245          250          255

```

His Ser Phe Leu Ser Cys Arg Leu Val Ser Pro Thr Trp Asn Arg Ile
 260 265 270
 Leu Asp Val His Thr Ser Tyr Trp Lys His Met Phe Ser Leu Phe Gly
 275 280 285
 Phe Gln Ile Asn Glu Asn Asp Trp Lys Tyr Ala Asn Pro Asn Leu Asn
 290 295 300
 Arg Pro Pro Phe Leu His Asn Asp Gln Ile Ser Asp Asp Tyr Phe Pro
 305 310 315 320
 Glu Ile Phe Lys Arg His Phe Leu Asn Arg Lys Arg Trp Leu Phe Pro
 325 330 335
 Ser Ile Pro Pro Ser His Leu Ser Phe Pro Ile His Val Pro Asn Phe
 340 345 350
 Met Ile Thr Ser Leu Leu Leu His Lys Asp Arg Ile Ile Thr Thr Ser
 355 360 365
 Gly Ser Gly Thr Ile Gln Ile His Asn Ala Ile Thr Gly Val Leu Glu
 370 375 380
 Ala Arg Leu Glu Gly His Lys Glu Gly Val Trp Ala Val Lys Ile His
 385 390 395 400
 Glu Asn Thr Leu Val Ser Gly Ser Ile Asp Lys Thr Val Arg Val Trp
 405 410 415
 Asn Ile Glu Lys Ala Lys Cys Thr His Ile Phe Arg Gly His Ile Ser
 420 425 430
 Ile Ile Arg Cys Leu Glu Ile Leu Val Pro Ser Arg Leu Ile Arg His
 435 440 445
 Gly Val Glu Ile Val Glu Pro Asp Gln Pro Tyr Ile Val Ser Gly Ser
 450 455 460
 Arg Asp His Thr Leu Arg Val Trp Lys Leu Pro Lys Asn Thr Asp Pro
 465 470 475 480
 Pro Tyr Leu Pro Asp Asn Thr Asn Ser Ile Asp Arg Trp Glu Lys Asn
 485 490 495
 Pro Tyr Phe Val His Thr Leu Ile Gly His Thr Asp Ser Val Arg Thr
 500 505 510
 Ile Ser Gly Tyr Gly Asp Ile Leu Val Ser Gly Ser Tyr Asp Ser Ser
 515 520 525
 Ile Arg Ile Trp Arg Val Ser Thr Gly Glu Cys Leu Tyr His Leu Arg
 530 535 540
 Gly His Ser Leu Arg Ile Tyr Ser Val Leu Tyr Glu Pro Glu Arg Asn
 545 550 555 560
 Ile Cys Ile Ser Gly Ser Met Asp Lys Ser Ile Arg Val Trp Asp Leu
 565 570 575

Ser Thr Gly Thr Cys Lys Tyr Val Leu Glu Gly His Asp Ala Phe Val
580 585 590

Thr Leu Leu Asn Val Phe Gln Asn Arg Leu Ile Ser Gly Ser Ala Asp
595 600 605

Ser Thr Ile Arg Ile Trp Asp Leu Asn Thr Gly Lys Pro Leu Met Val
610 615 620

Leu Pro Ser Asn Ser Gly Tyr Ile Ser Ser Phe Val Ser Asp Glu His
625 630 635 640

Lys Ile Ile Ser Gly Asn Asp Gly Ser Val Lys Leu Trp Asp Val Arg
645 650 655

Thr Gly Lys Leu Leu Arg Phe Leu Leu Thr Asp Leu Thr Lys Ile Trp
660 665 670

His Val Asp Phe Asp Ala Met Arg Cys Val Ala Ala Val Gln Arg Asp
675 680 685

Asp Gln Ala Tyr Leu Glu Val Ile Asn Phe Ser Gly Ser Arg Pro
690 695 700

<210> 11
<211> 2175
<212> DNA
<213> Mus sp.

<400> 11
gaattcggca cgaggcggag ctgcgttggc tgcggcctgg cagcaaaggg gcggccccgg 60
cggagagcag acccagtagt ccgggcgatt atggaccggg cagaggcggg gctgcaggag 120
aaagcgctta agtttatgaa ttccctcagag agagaagact gtaataatgg cgaaccccct 180
aggaagataa taccagagaa gaattcactt agacagactt acaacagctg tgccaggctt 240
tgcataaacc aagagacagt atgtctaaca agcactgcta tgaagactga aaattgtgtg 300
gccaaagcca aacttgccaa tggcacttcc agcatgattg tgcccaagca gcggaaactc 360
tcagcaagct atgagaagga aaaggagctg tgtgtcaagt attttgagca gtggtcagag 420
tctgatcaag tgggaatttgt agaacacctt atatcccaaa tgtgtcacta ccagcatggg 480
cacatcaact cctacctaaa acctatgctg cagaggggatt tcataactgc actgccagca 540
cgggggtctgg accacatcgc tgagaacatt ctgtcatact tggacgccaa gtactgtgt 600
gctgctgagc tctgtgtcaa ggaatggtac cgcgtgacgt cggacggcat gctgtggaaa 660
aagctcatcg agaggatggg caggacggac tctctgtggc gaggcctggc agagcgacaga 720
ggctgggggac agtacttatt caaaaacaaa cctcctgatg agaacgctcc tcccaactcc 780
ttttatagag cgctttatcc taaaatcata caagacattg agacaataga gtccaattgg 840
agatgtggggc gacatagttt acagagaatc cactgccgga gtgaaacaag taaagggggt 900
tactgtttac agtacgacga ccagaagata gtcagcggcc ttcgagacaa caccatcaag 960
atctgggata aaagcacact ggaatgcaag cggattctca cgggccacac gggctccgtc 1020
ctgtgtctgc agtacgatga gagggtgatc atcacaggct cctcagactc caccgtcaga 1080
gtgtgggatg taaatgcagg tgagatgcta aacacattga ttcaccactg tgaagccgtt 1140
ctgcacctgc gcttcaataa tggcatgatg gtgacctgtt ccaaagaccg ttccatcgct 1200
gtgtgggata tggcttcccc aactgacatc accctcagga ggggtgctggg gggacaccga 1260
gctgcggtca atgtttaga ctttgatgac aagtacatcg tttctgcctc tggagataga 1320
accataaagg tgtggaacac aagtacctgt gaattcgtaa ggaccctaaa tgggcacaag 1380
cgtggcatcg cctgtttgca gtacagagac aggcctgggtgg tgagcggctc ctctgacaac 1440
accatcagggc tgtgggacat agagtgtgga gcatgcctgc gagtgttggg gggccatgag 1500
gagttggtac gctgcattcg atttgataac aaaaggatag tgagcggagc ctatgatggg 1560
aaaattaaag tgtgggatct tatggctgct ttggaccggc gtgctccagc agggactctc 1620


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tgtctgcgga cacttggtga gcattctgga agagttttcc gcctccagtt tgatgaattc 1680
cagattgtca gtagttcaca tgatgacaca attctcatct gggacttcct gaatgatcca 1740
gctgctcacg ctgaaccgcc ccgctcccct tctcggacat acacctacat ctccagataa 1800
ataacccaac actggcctca taattgccca ggattcggtta atgttgagc atttaacaga 1860
cctgccaaga ccaggatgaa caacaatcaa actcctaccc ggattcccgg acggatgagc 1920
gaggagcagg gctttgagac tcctgttggg acacagtcgg tcagcagccg accaggacgg 1980
cctgctcggc accggctgcc tcagtgtctgc tatcagaaga tgtctttatc ttgtgtgaat 2040
gattggaact tccaagcctc cctccccttc cctccccttc cctccctgca cctgtttccc 2100
tcccattggg ttccagacaa agatgactta taaatatatt tagtgttttg cctaaaaaaaa 2160
aaaaaaaaaa aaaaaa 2175

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<210> 12
 <211> 569
 <212> PRT
 <213> Mus sp.

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<400> 12
Met Asp Pro Ala Glu Ala Val Leu Gln Glu Lys Ala Leu Lys Phe Met
  1              5              10              15

Asn Ser Ser Glu Arg Glu Asp Cys Asn Asn Gly Glu Pro Pro Arg Lys
      20              25              30

Ile Ile Pro Glu Lys Asn Ser Leu Arg Gln Thr Tyr Asn Ser Cys Ala
      35              40              45

Arg Leu Cys Ile Asn Gln Glu Thr Val Cys Leu Thr Ser Thr Ala Met
      50              55              60

Lys Thr Glu Asn Cys Val Ala Lys Ala Lys Leu Ala Asn Gly Thr Ser
      65              70              75              80

Ser Met Ile Val Pro Lys Gln Arg Lys Leu Ser Ala Ser Tyr Glu Lys
      85              90              95

Glu Lys Glu Leu Cys Val Lys Tyr Phe Glu Gln Trp Ser Glu Ser Asp
      100             105             110

Gln Val Glu Phe Val Glu His Leu Ile Ser Gln Met Cys His Tyr Gln
      115             120             125

His Gly His Ile Asn Ser Tyr Leu Lys Pro Met Leu Gln Arg Asp Phe
      130             135             140

Ile Thr Ala Leu Pro Ala Arg Gly Leu Asp His Ile Ala Glu Asn Ile
      145             150             155             160

Leu Ser Tyr Leu Asp Ala Lys Ser Leu Cys Ala Ala Glu Leu Val Cys
      165             170             175

Lys Glu Trp Tyr Arg Val Thr Ser Asp Gly Met Leu Trp Lys Lys Leu
      180             185             190

Ile Glu Arg Met Val Arg Thr Asp Ser Leu Trp Arg Gly Leu Ala Glu
      195             200             205

Arg Arg Gly Trp Gly Gln Tyr Leu Phe Lys Asn Lys Pro Pro Asp Glu
      210             215             220

```

Asn Ala Pro Pro Asn Ser Phe Tyr Arg Ala Leu Tyr Pro Lys Ile Ile
 225 230 235 240
 Gln Asp Ile Glu Thr Ile Glu Ser Asn Trp Arg Cys Gly Arg His Ser
 245 250 255
 Leu Gln Arg Ile His Cys Arg Ser Glu Thr Ser Lys Gly Val Tyr Cys
 260 265 270
 Leu Gln Tyr Asp Asp Gln Lys Ile Val Ser Gly Leu Arg Asp Asn Thr
 275 280 285
 Ile Lys Ile Trp Asp Lys Ser Thr Leu Glu Cys Lys Arg Ile Leu Thr
 290 295 300
 Gly His Thr Gly Ser Val Leu Cys Leu Gln Tyr Asp Glu Arg Val Ile
 305 310 315 320
 Ile Thr Gly Ser Ser Asp Ser Thr Val Arg Val Trp Asp Val Asn Ala
 325 330 335
 Gly Glu Met Leu Asn Thr Leu Ile His His Cys Glu Ala Val Leu His
 340 345 350
 Leu Arg Phe Asn Asn Gly Met Met Val Thr Cys Ser Lys Asp Arg Ser
 355 360 365
 Ile Ala Val Trp Asp Met Ala Ser Pro Thr Asp Ile Thr Leu Arg Arg
 370 375 380
 Val Leu Val Gly His Arg Ala Ala Val Asn Val Val Asp Phe Asp Asp
 385 390 395 400
 Lys Tyr Ile Val Ser Ala Ser Gly Asp Arg Thr Ile Lys Val Trp Asn
 405 410 415
 Thr Ser Thr Cys Glu Phe Val Arg Thr Leu Asn Gly His Lys Arg Gly
 420 425 430
 Ile Ala Cys Leu Gln Tyr Arg Asp Arg Leu Val Val Ser Gly Ser Ser
 435 440 445
 Asp Asn Thr Ile Arg Leu Trp Asp Ile Glu Cys Gly Ala Cys Leu Arg
 450 455 460
 Val Leu Glu Gly His Glu Glu Leu Val Arg Cys Ile Arg Phe Asp Asn
 465 470 475 480
 Lys Arg Ile Val Ser Gly Ala Tyr Asp Gly Lys Ile Lys Val Trp Asp
 485 490 495
 Leu Met Ala Ala Leu Asp Pro Arg Ala Pro Ala Gly Thr Leu Cys Leu
 500 505 510
 Arg Thr Leu Val Glu His Ser Gly Arg Val Phe Arg Leu Gln Phe Asp
 515 520 525
 Glu Phe Gln Ile Val Ser Ser Ser His Asp Asp Thr Ile Leu Ile Trp
 530 535 540

Asp Phe Leu Asn Asp Pro Ala Ala His Ala Glu Pro Pro Arg Ser Pro
545 550 555 560

Ser Arg Thr Tyr Thr Tyr Ile Ser Arg
565

```
<210> 13
<211> 9
<212> PRT
<213> Unknown Organism
```

<220>
<223> Description of Unknown Organism: SV40 Large T antigen fragment

```
<400> 13
Pro Pro Lys Lys Lys Arg Lys Val Ala
  1             5
```

```
<210> 14
<211> 32
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223> Description of Artificial Sequence: formula
sequence
```

```
<220>  
<221> MOD_RES  
<222> (3)...(6)  
<223> any amino acid
```

```
<220>  
<221> MOD_RES  
<222> (7)  
<223> hydrophobic amino acid
```

```
<220>  
<221> MOD_RES  
<222> (8)...(9)  
<223> any amino acid
```

```
<220>  
<221> MOD_RES  
<222> (10)  
<223> hydrophobic amino acid
```

```
<220>  
<221> MOD_RES  
<222> (11)  
<223> any amino acid
```

```
<220>  
<221> MOD_RES  
<222> (12)  
<223> aromatic amino acid
```


peptide

<400> 15

Cys Met His Ile Glu Ser Leu Asp Ser Tyr Thr Cys
 1 5 10

<210> 16

<211> 12

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: EGF-derived
 peptide

<400> 16

Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys
 1 5 10

<210> 17

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: formula
 sequence

<220>

<221> MOD_RES

<222> (1)

<223> unique amino acid, such as cys or lys

<220>

<221> MOD_RES

<222> (2)...(3)

<223> amino acid residue selected to modulate the affinity of
 the internalizing peptide for different membranes

<400> 17

Xaa Xaa Xaa Glu Ala Ala Leu Ala Glu Ala Leu Ala Glu Ala Leu Ala
 1 5 10 15

Glu Ala Leu Ala Glu Ala Leu Ala Glu Ala Leu Glu Ala Leu Ala Ala
 20 25 30

<210> 18

<211> 8

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: peptide substrate
 for N-myristoyl transferase

<400> 18

Gly Asn Ala Ala Ala Arg Arg
1 5

<210> 19

<211> 10

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: peptide derived
from laminin

<400> 19

Cys Asp Pro Gly Tyr Ile Gly Ser Arg Cys
1 5 10

<210> 20

<211> 75

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nde1-EcoR1 fragment

<400> 20

catatgggtg gctgccgtgg cgatatgttc gggtgcggtg ctctccaaa aaagaagaga 60
aaggtagctg gattc 75

<210> 21

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: RGD/SV40 peptide

<400> 21

Met Gly Gly Cys Arg Gly Asp Met Phe Gly Cys Gly Ala Pro Pro Lys
1 5 10 15

Lys Lys Arg Lys Val Ala Gly Phe
20

<210> 22

<211> 225

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nde1-EcoR1 fragment

<400> 22

catatgggagc cagtagatcc tagactagag ccctggaagc atccaggaag tcagcctaaa 60
actgcttgta ccaattgcta ttgtaaaaag tgttgctttc attgccaagt ttgtttcata 120

acaaaagccc ttggcatctc ctatggcagg aagaagcgga gacagcgacg aagacctcct 180
 caaggcagtc agactcatca agtttctcta agtaagcaag gattc 225

<210> 23
 <211> 72
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: engineered HIV-1 tat

<400> 23
 Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser
 1 5 10 15
 Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe
 20 25 30
 His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly
 35 40 45
 Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr
 50 55 60
 His Gln Val Ser Leu Ser Lys Gln
 65 70

<210> 24
 <211> 912
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: NdeI-EcoRI fragment

<400> 24
 catatgacct ctgcgcgtc cgtgaagtcg ggtccgcggg aggttccgcg cgatgagtac 60
 gaggatctgt actacacccc gtcttcaggt atggcgagtc ccgatagtcc gcctgacacc 120
 tccgcgcgtg ggcacctaca gacacgctcg cgccagaggg gcgaggtccg ttctgtccag 180
 tacgacgagt cggattatgc cctctacggg ggctcgtcat ccgaagacga cgaacacccg 240
 gaggtccccc ggacgcggcg tcccgtttcc ggggcgggtt tgtccggccc ggggcctgcg 300
 cgggcgcctc cgccaccgcg tgggtccgga ggggcgggac gcacaccac caccgcccc 360
 cgggcccccc gaaccacgcg ggtggcgact aaggcccccg cgcccccggc ggcggagacc 420
 acccgcgcca ggaaatcggc ccagccagaa tccgcgcac tccagacgc ccccgcgctg 480
 acggcgccaa ccgatccaa gacaccgcg caggggctgg ccagaaagct gcactttagc 540
 accgcccccc caaacccga cgcgccatgg accccccggg tggccggctt taacaagcgc 600
 gtcttctgcg ccgcggtcgg gcgcctggcg gccatgcatg cccggatggc ggcgggtccag 660
 ctctgggaca tgtcgcgtcc gcgcacagac gaagacctca acgaactcct tggcatcacc 720
 accatccgcg tgacggtctg cgagggcaaa aacctgcttc agcgcgccaa cgagttggtg 780
 aatccagacg tgggtgcagga cgtcgacgcg gccacggcga ctcgagggcg ttctgcggcg 840
 tcgcgcccc aagagcgacc tcgagcccca gcccgctccg cttctcgccc cagacggccc 900
 gtcgaggaat tc 912

<210> 25
 <211> 301
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: engineered HSV-1 VP22

<400> 25

Met Thr Ser Arg Arg Ser Val Lys Ser Gly Pro Arg Glu Val Pro Arg
 1 5 10 15

Asp Glu Tyr Glu Asp Leu Tyr Tyr Thr Pro Ser Ser Gly Met Ala Ser
 20 25 30

Pro Asp Ser Pro Pro Asp Thr Ser Arg Arg Gly Ala Leu Gln Thr Arg
 35 40 45

Ser Arg Gln Arg Gly Glu Val Arg Phe Val Gln Tyr Asp Glu Ser Asp
 50 55 60

Tyr Ala Leu Tyr Gly Gly Ser Ser Ser Glu Asp Asp Glu His Pro Glu
 65 70 75 80

Val Pro Arg Thr Arg Arg Pro Val Ser Gly Ala Val Leu Ser Gly Pro
 85 90 95

Gly Pro Ala Arg Ala Pro Pro Pro Pro Ala Gly Ser Gly Gly Ala Gly
 100 105 110

Arg Thr Pro Thr Thr Ala Pro Arg Ala Pro Arg Thr Gly Arg Val Ala
 115 120 125

Thr Lys Ala Pro Ala Ala Pro Ala Ala Glu Thr Thr Arg Gly Arg Lys
 130 135 140

Ser Ala Gln Pro Glu Ser Ala Ala Leu Pro Asp Ala Pro Ala Ser Thr
 145 150 155 160

Ala Pro Thr Arg Ser Lys Thr Pro Ala Gln Gly Leu Ala Arg Lys Leu
 165 170 175

His Phe Ser Thr Ala Pro Pro Asn Pro Asp Ala Pro Trp Thr Pro Arg
 180 185 190

Val Ala Gly Phe Asn Lys Arg Val Phe Cys Ala Ala Val Gly Arg Leu
 195 200 205

Ala Ala Met His Ala Arg Met Ala Ala Val Gln Leu Trp Asp Met Ser
 210 215 220

Arg Pro Arg Thr Asp Glu Asp Leu Asn Glu Leu Leu Gly Ile Thr Thr
 225 230 235 240

Ile Arg Val Thr Val Cys Glu Gly Lys Asn Leu Leu Gln Arg Ala Asn
 245 250 255

Glu Leu Val Asn Pro Asp Val Val Gln Asp Val Asp Ala Ala Thr Ala
 260 265 270

Thr Arg Gly Arg Ser Ala Ala Ser Arg Pro Thr Glu Arg Pro Arg Ala
 275 280 285

Pro Ala Arg Ser Ala Ser Arg Pro Arg Arg Pro Val Glu
 290 295 300

<210> 26
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Nde1-EcoR1 fragment

<400> 26
 catatggacg tgcagcggc cagggcgact cgagggcggtt ctgcggcgctc gcgccccacc 60
 gagcgacctc gagccccagc ccgctccgct tctcgcccca gacggcccgt cgaggaattc 120

<210> 27
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: VP22 (C-terminal domain)

<400> 27
 Met Asp Val Asp Ala Ala Thr Ala Thr Arg Gly Arg Ser Ala Ala Ser
 1 5 10 15
 Arg Pro Thr Glu Arg Pro Arg Ala Pro Ala Arg Ser Ala Ser Arg Pro
 20 25 30
 Arg Arg Pro Val Glu
 35

<210> 28
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Linker peptide

<400> 28
 Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
 1 5 10 15

<210> 29
 <211> 4
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: tetrapeptide isostere

<400> 29
 Ala Ile Tyr Tyr
 1

<210> 30
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 30
 gcggatccac catggataam aaagaggga ctaataac 38

<210> 31
 <211> 76
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 31
 gcgcggccgc ctactcatca ttagtagatg gcamcttctg agcaaacag ccctctggta 60
 ttatagttgt cctcgt 76

<210> 32
 <211> 72
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 32
 cgcgccgcgc tactcatcat ctagatgg camttgagcc aaagttttct ctggtattat 60
 agttgtcctc gt 72

<210> 33
 <211> 39
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> modified_base
 <222> (20)
 <223> i

<220>
 <223> Description of Artificial Sequence: primer

<400> 33
 gcwatccacc atggataatn taaagaggga cctaataac 39

<210> 34
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 34
 gtaggtgtat ctccatgtgg tatratagtr gtcc 34

<210> 35
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 35
 ggacaactat aataccacat ggagatacac ctac 34

<210> 36
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 36
 gcctcgagtc actcctcctc tgagctgtc 29

<210> 37
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 37
 gcggatccac catggataam aaagaggac ctaataac 38

<210> 38
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 38
 cctatcacat ctatatattta ttggtattat agttgtc 37

<210> 39
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 39
 gacaactata ataccaataa aatatagatg tgatagg 37

<210> 40
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 40
 gcctcgagtc ataatgtgtt agtatTTTgt cctg 34

<210> 41
 <211> 69
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 41
 gcggatccac catggaggaa gaagagtata tgcccatgga ggagactctt tgccaacggt 60
 ttaaattgtg 69

<210> 42
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 42
 gcgcggccgc tcatatagac ataaatccag tagac 35

<210> 43
 <211> 65
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 43
 gcggatccgc caccatggac tacaaggacg acgatgacaa agatgaccg gccgaggcgg 60

tgctg

65

<210> 44
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 44
 gtaggtgtat ctccatgtct ggagatgtag gtgtatg

37

<210> 45
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 45
 catcaccta catctccaga catggagata cacctac

37

<210> 46
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: primer

<400> 46
 gcgcggcgc tcactcctcc tctgagctgt c

31

<210> 47
 <211> 5
 <212> PRT
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: LFCSE motif

<400> 47
 Leu Phe Cys Ser Glu
 1 5

<210> 48
 <211> 2151
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (70)..(1779)

<400> 48
 tgcgttggct ggggctggc accaaagggg cgccccggc ggagagcgga cccagtggcc 60

tgggcgatt atg gac ccg gcc gag gcg gtg ctg caa gag aag gca ctc aag 111
 Met Asp Pro Ala Glu Ala Val Leu Gln Glu Lys Ala Leu Lys
 1 5 10

ttt atg aat tcc tca gag aga gaa gac tgt aat aat ggc gaa ccc cct 159
 Phe Met Asn Ser Ser Glu Arg Glu Asp Cys Asn Asn Gly Glu Pro Pro
 15 20 25 30

agg aag ata ata cca gag aag aat tca ctt aga cag aca tac aac agc 207
 Arg Lys Ile Ile Pro Glu Lys Asn Ser Leu Arg Gln Thr Tyr Asn Ser
 35 40 45

tgt gcc aga ctc tgc tta aac caa gaa aca gta tgt tta gca agc act 255
 Cys Ala Arg Leu Cys Leu Asn Gln Glu Thr Val Cys Leu Ala Ser Thr
 50 55 60

gct atg aag act gag aat tgt gtg gcc aaa aca aaa ctt gcc aat ggc 303
 Ala Met Lys Thr Glu Asn Cys Val Ala Lys Thr Lys Leu Ala Asn Gly
 65 70 75

act tcc agt atg att gtg ccc aag caa cgg aaa ctc tca gca agc tat 351
 Thr Ser Ser Met Ile Val Pro Lys Gln Arg Lys Leu Ser Ala Ser Tyr
 80 85 90

gaa aag gaa aag gaa ctg tgt gtc aaa tac ttt gag cag tgg tca gag 399
 Glu Lys Glu Lys Glu Leu Cys Val Lys Tyr Phe Glu Gln Trp Ser Glu
 95 100 105 110

tca gat caa gtg gaa ttt gtg gaa cat ctt ata tcc caa atg tgt cat 447
 Ser Asp Gln Val Glu Phe Val Glu His Leu Ile Ser Gln Met Cys His
 115 120 125

tac caa cat ggg cac ata aac tcg tat ctt aaa cct atg ttg cag aga 495
 Tyr Gln His Gly His Ile Asn Ser Tyr Leu Lys Pro Met Leu Gln Arg
 130 135 140

gat ttc ata act gct ctg cca gct cgg gga ttg gat cat atc gct gag 543
 Asp Phe Ile Thr Ala Leu Pro Ala Arg Gly Leu Asp His Ile Ala Glu
 145 150 155

aac att ctg tca tac ctg gat gcc aaa tca cta tgt gct gct gaa ctt 591
 Asn Ile Leu Ser Tyr Leu Asp Ala Lys Ser Leu Cys Ala Ala Glu Leu
 160 165 170

gtg tgc aag gaa tgg tac cga gtg acc tct gat ggc atg ctg tgg aag 639
 Val Cys Lys Glu Trp Tyr Arg Val Thr Ser Asp Gly Met Leu Trp Lys
 175 180 185 190

aag ctt atc gag aga atg gtc agg aca gat tct ctg tgg aga ggc ctg 687
 Lys Leu Ile Glu Arg Met Val Arg Thr Asp Ser Leu Trp Arg Gly Leu
 195 200 205

gca gaa cga aga gga tgg gga cag tat tta ttc aaa aac aaa cct cct 735
 Ala Glu Arg Arg Gly Trp Gly Gln Tyr Leu Phe Lys Asn Lys Pro Pro
 210 215 220

gac ggg aat gct cct ccc aac tct ttt tat aga gca ctt tat cct aaa	783
Asp Gly Asn Ala Pro Pro Asn Ser Phe Tyr Arg Ala Leu Tyr Pro Lys	
225 230 235	
att ata caa gac att gag aca ata gaa tct aat tgg aga tgt gga aga	831
Ile Ile Gln Asp Ile Glu Thr Ile Glu Ser Asn Trp Arg Cys Gly Arg	
240 245 250	
cat agt tta cag aga att cac tgc cga agt gaa aca agc aaa gga gtt	879
His Ser Leu Gln Arg Ile His Cys Arg Ser Glu Thr Ser Lys Gly Val	
255 260 265 270	
tac tgt tta cag tat gat gat cag aaa ata gta agc ggc ctt cga gac	927
Tyr Cys Leu Gln Tyr Asp Asp Gln Lys Ile Val Ser Gly Leu Arg Asp	
275 280 285	
aac aca atc aag atc tgg gat aaa aac aca ttg gaa tgc aag cga att	975
Asn Thr Ile Lys Ile Trp Asp Lys Asn Thr Leu Glu Cys Lys Arg Ile	
290 295 300	
ctc aca ggc cat aca ggt tca gtc ctc tgt ctc cag tat gat gag aga	1023
Leu Thr Gly His Thr Gly Ser Val Leu Cys Leu Gln Tyr Asp Glu Arg	
305 310 315	
gtg atc ata aca gga tca tcg gat tcc acg gtc aga gtg tgg gat gta	1071
Val Ile Ile Thr Gly Ser Ser Asp Ser Thr Val Arg Val Trp Asp Val	
320 325 330	
aat aca ggt gaa atg cta aac acg ttg att cac cat tgt gaa gca gtt	1119
Asn Thr Gly Glu Met Leu Asn Thr Leu Ile His His Cys Glu Ala Val	
335 340 345 350	
ctg cac ttg cgt ttc aat aat ggc atg atg gtg acc tgc tcc aaa gat	1167
Leu His Leu Arg Phe Asn Asn Gly Met Met Val Thr Cys Ser Lys Asp	
355 360 365	
cgt tcc att gct gta tgg gat atg gcc tcc cca act gac att acc ctc	1215
Arg Ser Ile Ala Val Trp Asp Met Ala Ser Pro Thr Asp Ile Thr Leu	
370 375 380	
cgg agg gtg ctg gtc gga cac cga gct gct gtc aat gtt gta gac ttt	1263
Arg Arg Val Leu Val Gly His Arg Ala Ala Val Asn Val Val Asp Phe	
385 390 395	
gat gac aag tac att gtt tct gca tct ggg gat aga act ata aag gta	1311
Asp Asp Lys Tyr Ile Val Ser Ala Ser Gly Asp Arg Thr Ile Lys Val	
400 405 410	
tgg aac aca agt act tgt gaa ttt gta agg acc tta aat gga cac aaa	1359
Trp Asn Thr Ser Thr Cys Glu Phe Val Arg Thr Leu Asn Gly His Lys	
415 420 425 430	
cga ggc att gcc tgt ttg cag tac agg gac agg ctg gta gtg agt ggc	1407
Arg Gly Ile Ala Cys Leu Gln Tyr Arg Asp Arg Leu Val Val Ser Gly	
435 440 445	
tca tct gac aac act atc aga tta tgg gac ata gaa tgt ggt gca tgt	1455
Ser Ser Asp Asn Thr Ile Arg Leu Trp Asp Ile Glu Cys Gly Ala Cys	
450 455 460	

Ile Ile Pro Glu Lys Asn Ser Leu Arg Gln Thr Tyr Asn Ser Cys Ala
35 40 45

Arg Leu Cys Leu Asn Gln Glu Thr Val Cys Leu Ala Ser Thr Ala Met
 50 55 60

Lys Thr Glu Asn Cys Val Ala Lys Thr Lys Leu Ala Asn Gly Thr Ser
 65 70 75 80

Ser Met Ile Val Pro Lys Gln Arg Lys Leu Ser Ala Ser Tyr Glu Lys
 85 90 95

Glu Lys Glu Leu Cys Val Lys Tyr Phe Glu Gln Trp Ser Glu Ser Asp
 100 105 110

Gln Val Glu Phe Val Glu His Leu Ile Ser Gln Met Cys His Tyr Gln
 115 120 125

His Gly His Ile Asn Ser Tyr Leu Lys Pro Met Leu Gln Arg Asp Phe
 130 135 140

Ile Thr Ala Leu Pro Ala Arg Gly Leu Asp His Ile Ala Glu Asn Ile
 145 150 155 160

Leu Ser Tyr Leu Asp Ala Lys Ser Leu Cys Ala Ala Glu Leu Val Cys
 165 170 175

Lys Glu Trp Tyr Arg Val Thr Ser Asp Gly Met Leu Trp Lys Lys Leu
 180 185 190

Ile Glu Arg Met Val Arg Thr Asp Ser Leu Trp Arg Gly Leu Ala Glu
 195 200 205

Arg Arg Gly Trp Gly Gln Tyr Leu Phe Lys Asn Lys Pro Pro Asp Gly
 210 215 220

Asn Ala Pro Pro Asn Ser Phe Tyr Arg Ala Leu Tyr Pro Lys Ile Ile
 225 230 235 240

Gln Asp Ile Glu Thr Ile Glu Ser Asn Trp Arg Cys Gly Arg His Ser
 245 250 255

Leu Gln Arg Ile His Cys Arg Ser Glu Thr Ser Lys Gly Val Tyr Cys
 260 265 270

Leu Gln Tyr Asp Asp Gln Lys Ile Val Ser Gly Leu Arg Asp Asn Thr
 275 280 285

Ile Lys Ile Trp Asp Lys Asn Thr Leu Glu Cys Lys Arg Ile Leu Thr
 290 295 300

Gly His Thr Gly Ser Val Leu Cys Leu Gln Tyr Asp Glu Arg Val Ile
 305 310 315 320

Ile Thr Gly Ser Ser Asp Ser Thr Val Arg Val Trp Asp Val Asn Thr
 325 330 335

Gly Glu Met Leu Asn Thr Leu Ile His His Cys Glu Ala Val Leu His
 340 345 350

Leu Arg Phe Asn Asn Gly Met Met Val Thr Cys Ser Lys Asp Arg Ser
 355 360 365

Ile Ala Val Trp Asp Met Ala Ser Pro Thr Asp Ile Thr Leu Arg Arg
 370 375 380

Val Leu Val Gly His Arg Ala Ala Val Asn Val Val Asp Phe Asp Asp
 385 390 395 400

Lys Tyr Ile Val Ser Ala Ser Gly Asp Arg Thr Ile Lys Val Trp Asn
 405 410 415

Thr Ser Thr Cys Glu Phe Val Arg Thr Leu Asn Gly His Lys Arg Gly
 420 425 430

Ile Ala Cys Leu Gln Tyr Arg Asp Arg Leu Val Val Ser Gly Ser Ser
 435 440 445

Asp Asn Thr Ile Arg Leu Trp Asp Ile Glu Cys Gly Ala Cys Leu Arg
 450 455 460

Val Leu Glu Gly His Glu Glu Leu Val Arg Cys Ile Arg Phe Asp Asn
 465 470 475 480

Lys Arg Ile Val Ser Gly Ala Tyr Asp Gly Lys Ile Lys Val Trp Asp
 485 490 495

Leu Val Ala Ala Leu Asp Pro Arg Ala Pro Ala Gly Thr Leu Cys Leu
 500 505 510

Arg Thr Leu Val Glu His Ser Gly Arg Val Phe Arg Leu Gln Phe Asp
 515 520 525

Glu Phe Gln Ile Val Ser Ser Ser His Asp Asp Thr Ile Leu Ile Trp
530 535 540

Asp Phe Leu Asn Asp Pro Ala Ala Gln Ala Glu Pro Pro Arg Ser Pro
545 550 555 560

Ser Arg Thr Tyr Thr Tyr Ile Ser Arg
565